Maryland Historical Trust

Maryland Inventory of Historic Properties Number: AL-V-B-317

Name: Morth Ranch Bridge, #1043

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridged received the following determination of eligibly.									
M Eligibility Recommended	ARYLAND HISTOI	RICA	L TRU Eligib		ot Rec	comm	ended		ζ.
Criteria: A B C C	_D Considerations:	_A _							
Reviewer, OPS:Anne E. Bruder Reviewer, NR Program:_Peter E. Ku						_	2001_ 1 2001		

MARYLAND INVENTORY OF HISTORIC PROPERTIES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION MARYLAND HISTORICAL TRUST

NAME AND SHA NO.: North Branch Bridge, 1043

<u>LOCATION</u>
Road Name and Number: MD 47 over North Branch City/Town: Barrelville X vicinity County: Allegany
Ownership: X State County Municipal Other
Bridge projects over: _ Road _ Railway X Water _ Land
Is bridge located within designated district?: _ yes <u>X</u> no NR listed district _ NR determined eligible district locally designated _ other Name of District _
BRIDGE TYPE
Timber Bridge Beam Bridge Truss-Covered Trestle Timber-and-Concrete
_ Stone Arch Bridge
_ Metal Truss Bridge
_ Moveable Bridge _ Swing _ Bascule Single Leaf _ Bascule Multiple Leaf _ Vertical Lift _ Retractile _ Pontoon
_ Metal Girder _ Rolled Beam _ Rolled Beam Concrete Encased _ Plate Girder _ Plate Girder Concrete Encased
_ Metal Suspension
_ Metal Arch
_ Metal Cantilever
X Concrete _ Concrete Arch _ Concrete Slab X Concrete Beam _ Rigid Frame _ Other Type Name _ - (182)

MARYLAND INVENTORY OF HISTORIC PROPERTIES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION MARYLAND HISTORICAL TRUST

DESCRIPTION

Describe the Setting:

Located in northwestern Allegany County, Bridge No. 1043 carries MD 47 over North Branch near the town of Barrelville. Part of Maryland's Appalachian Plateau physiographic zone, MD 47 crosses the generally easterly-flowing North Branch in a north-south direction.

Describe the Superstructure and Substructure: (Discuss points identified in Context Addendum, Section C)

Consisting of two-22 foot (+/-) concrete continuous beam spans, Bridge No. 1043 carries two lanes of opposing traffic on its 24 feet (+/-) of clear roadway. Erected in 1923, the bridge measures 42 feet (+/-) in total length. The bridge has a 63 (+/-) degree skew. Four concrete T-beams spaced at 5'-9" (+/-) support the concrete deck with bituminous wearing surface, underhanging water pipe and small safety curbs. Traffic barrier W-beam guardrails extend across the structure from the approaches, replacing the original concrete balustrades and serving as bridge railings. The 3 foot (+/-) thick pier, abutments and wingwalls consist of rubble stone masonry gunited with concrete and have concrete overpours at the streamline. The bridge is founded on Calcarious Shale Rock.

A survey of historic concrete beam bridges undertaken by the Maryland State Highway Administration in the Fall of 1995 identified 113 bridges of that type located throughout the state. Nearly one-quarter (26) of that total were double-span bridges; 37 bridges (33%) were multiple span.

Discuss major alterations:

In May, 1985 the northeast wingwall failed and was replaced with a gabion structure. At this time, the exterior girders were heavily spalled with exposed stirrups. In 1989 the deck was widened by 1'-2.5" (+/-) on each side to extend the cantilever by 8.5" (+/-). In 1991 the bridge was recommended for total replacement. In January, 1992 a five foot section of grout bags or sausages was placed under the pier to prevent undermining. At this time, the stone pier was also repointed, the exterior girders were repaired with pneumatically applied mortar, a drain was placed in a wingwall and a boulder was removed from the stream. In January, 1996 the pier collapsed, forcing a closure of the bridge. At this time, a temporary one lane jumper or Mabey bridge was erected across the span while a concrete replacement pier was erected. On April 16, 1996 numerous cracks and spalls were noticed on the girders and the exterior curbs were heavily deteriorated.

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HISTORY

When Built: 1923 Why Built: Unknown

Who Built: State Roads Commission

Who Designed: Unknown

Why Altered: Near complete deterioration and spalling of the concrete balustrades, lack of

stability in northeast wingwall and collapse of pier.

Was this bridge built as part of an organized bridge building campaign?: No, historic research

has not indicated that this bridge was erected as part of an organized building campaign.

SURVEYOR ANALYSIS

This bridge may have NR significance for association with:

_ A (Events) _ B (Person) _ C (Engineering/Architectural Character)

Was this bridge constructed in response to significant events in Maryland or local history?

No. Documents have not identified any events significant in Maryland and/or local history that spurred construction of Bridge No. 1043. The improvement of the Allegany County road system resulted from events that occurred during the first three decades of the twentieth century. The rapid growth in vehicular usage during this period prompted the replacement of the existing older structures of the 19th century with newer modern structures which could handle the larger loads. Many times, though, existing stone substructures were retained with the usage of a new superstructure. During the 1920's, the State Roads Commission focused on the improvement of the primary road system with concerns for the highway users' safety and comfort while upgrading the secondary road system as well as the farm-to-farm network of feeder roads.

When the bridge was built, and/or given a major alteration, did it have a significant impact on the growth and development of the area?

Erection of Bridge No. 1043 does not appear to have had any significant impact on the area's growth and development.

Is the bridge located in an area which may be eligible for historic designation, and would the bridge add or detract from the historic and visual character of the possible district?

No, the bridge is not located in an area potentially eligible for historic designation.

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Is the bridge a significant example of its type?

Bridge No. 1043 consists of two identical, 22 foot spans matching the 1924 standard plans for concrete girder bridges by the State Roads Commission, except for the retention of stone substructure units from a probable older structure at the same crossing. These standard plans included the use of concrete balustrades instead of parapets for railings. As a result of the insensitive replacement of the bridge's concrete balustrades, the widening of the superstructure and loss of the stone pier, Bridge No. 1043 is not a significant example of its type.

Does the bridge retain integrity of the important elements described in the Context Addendum?

The complete removal of the bridge's balustrade and its replacement with traffic barrier W-beam barriers has compromised the overall integrity of the structure. The remaining character defining elements do not posses good integrity with the loss of the pier and major revisions to the abutments.

Is the bridge a significant example of the work of the manufacturer, designer, and/or engineer, and why?

No. Bridge No. 1043 is not a significant example of the State Roads Commission's standard plans for concrete bridges.

Should this bridge be given further study before significance analysis is made, and why?

No, since the resource does not posses sufficient integrity.

BIBLIOGRAPHY

Maryland State Highway Administration

As-Built Drawings. On file at 707 North Calvert Street, Baltimore. Bridge Inspection Reports. On file at 707 North Calvert Street, Baltimore.

SURVEYOR INFORMATION

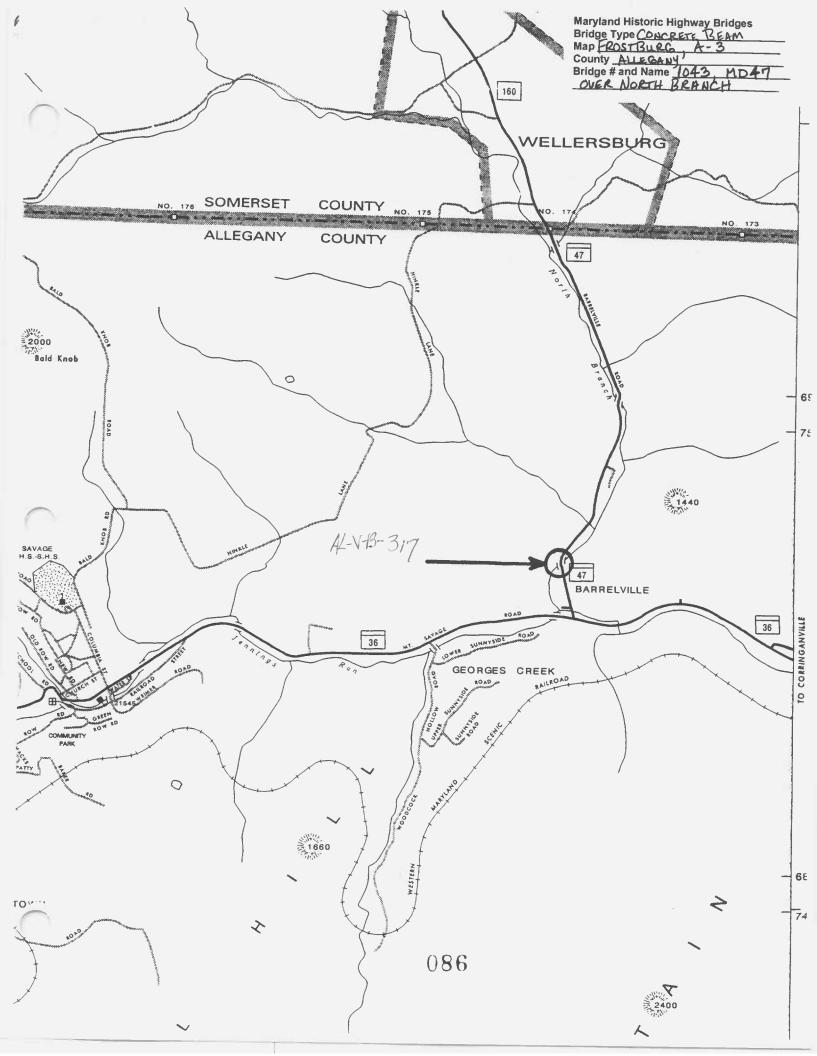
Name: James T. Aguirre Date: July 17, 1996

Organization: Environmental Section, Project Planning Div. Telephone: (410) 545-8559

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Address: 707 North Calvert Street, Room 300

Baltimore MD 21202





AL-V-B-317
1043 MD 47 OVEE NORTH BRANCH
ALLEGHENY (O., MD
C. HALL
8/98
MD SHPO

SOUTH APPROACH

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ALLEGHENY Co., MD

C. HALL
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MD SHPO
NORTH APPROACH
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AL-V-B-317 1043 MD 47 OVER NORTH BRANCH ALLEGHENY CO., MD C. HALL 8/98 MD SHPO EAST ELEVATION

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1043 MD 47 OVER NORTH BRANCH
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MD SHPO WEST ELEVATION

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AL-V-B-317 1043 MD 47 OVER NORTH BRANCH ALLEGHENY CO, MD C. HALL 8/98

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EAST RAILING

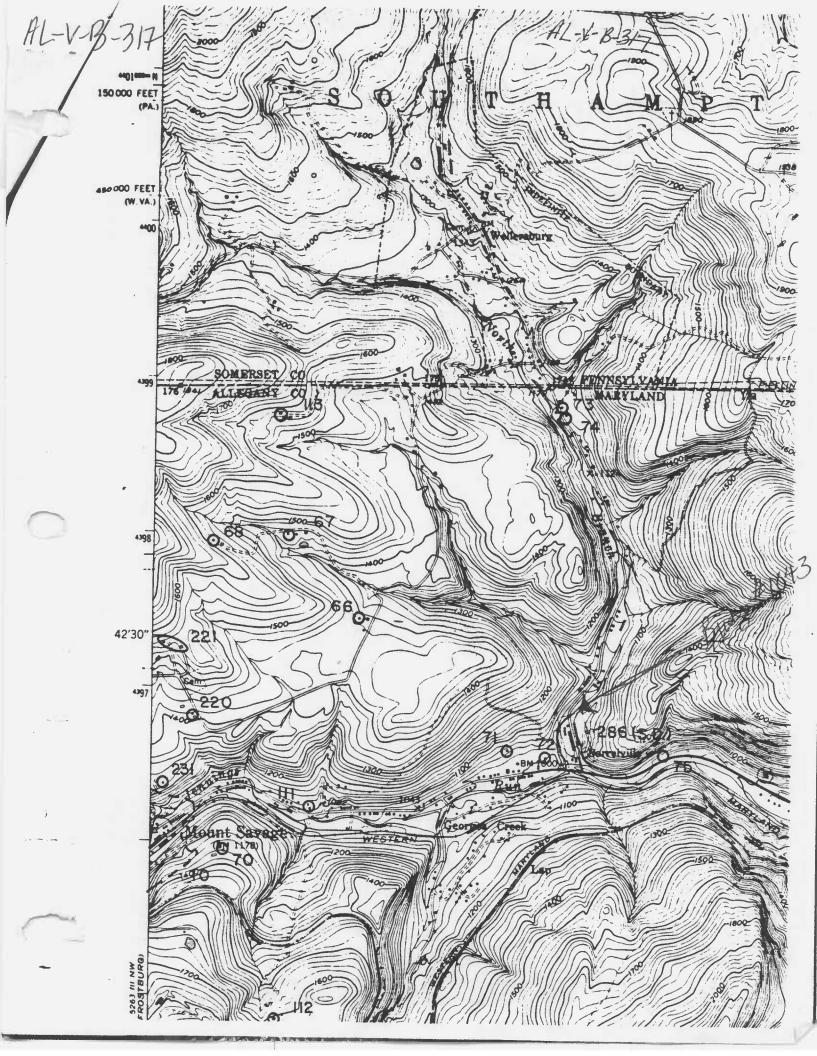
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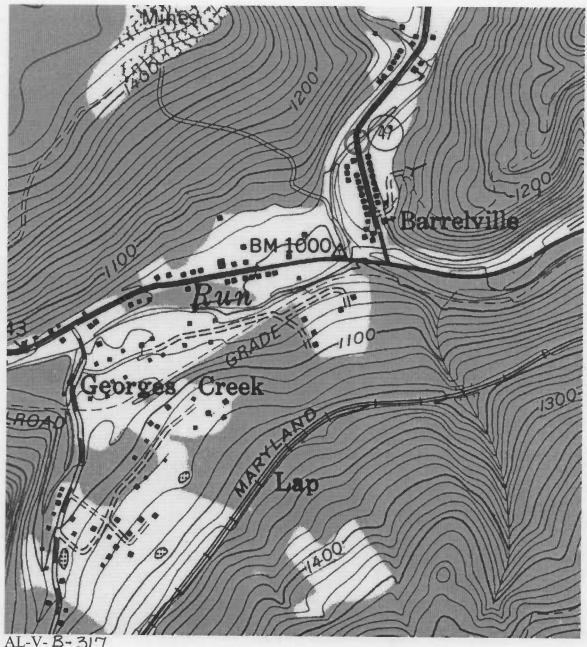
INDIVIDUAL PROPERTY/DISTRICT NARYLAND HISTORICAL TRUST INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Bridge #1043 Su	urvey Number: AL-V-B-3/7
Project: <u>MD 47 over North Branch, Allegany County</u> Age	ency: SHA
Site visit by MHT Staff: X no yes Name	Date
Eligibility recommended Eligibility not recommended	<u> </u>
Criteria: A _B X_C _D Considerations: _A _B _B	_CDEFGNone
Justification for decision: (Use continuation sheet if necess	ary and attach map)
According to information prepared by SHA, Bridge #1043, a constructed in 1923, does not meet the National Register structures such as this bridge were a highly redundant and Bridge #1043 has no particular historical or environmental examples of similar bridges remain in the state located in any known district.	criteria. Concrete slab bridge form by the 1930s
Documentation on the property/district is presented in: Project	Files
Preparedby: RitaSuffness	
Elizabeth Hannold Februa	ary 10, 1992
Reviewer, Office of Preservation Services	Date
NR program concurrence:	1 Seb 32

Survey No. <u>AL-V-B-3/7</u>

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT Geographic Region: I. and Cecil) Eastern Shore counties. Shore (all Eastern Western Shore (Anne Arundel, Calvert, Charles, and St. Mary's) Prince George's (Baltimore City, Baltimore, Carroll, Piedmont Montgomery) Howard, Frederick, Harford, Garrett and Washington) (Allegany, Western Maryland II. Chronological/Developmental Periods: Paleo-Indian 10000-7500 B.C. 7500-6000 B.C. Early Archaic 6000-4000 Middle Archaic B.C. Late Archaic 4000-2000 B.C. Early Woodland 2000-500 B.C. 500 B.C. - A.D. 900 Middle Woodland A.D. 900-1600 Late Woodland/Archaic A.D. 1570-1750 Contact and Settlement Rural Agrarian Intensification A.D. 1680-1815 A.D. 1815-1870 Transition Agricultural-Industrial A.D. 1870-1930 Industrial/Urban Dominance Modern Period A.D. 1930-Present __ historic) Unknown Period (___ prehistoric TV. Historic Period Themes: III. Prehistoric Period Themes: Agriculture Subsistence Architecture, Architecture, Landscape Settlement and Community Planning (Commercial and Industrial) Economic Political Government/Law Demographic Military Religion Religion Technology Social/Educational/Cultural Environmental Adaption Transportation Resource Type: V. Structure Category: Historic Environment: Rural Transportation Historic Function(s) and Use(s): Unknown Design Known Source:





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Bridge # 1043
MD 47 Over North Branch
Allegany County
Cumberland Quad